PCT

REC'D 0 5 JUL 2005

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

	cant's or agent's file reference 46 PCT	FOR FURTHER ACT	ON	See Form PCT/IPEA/416						
	national application No. /EP2004/008201	International filing date (day/month/year) 22.07.2004		Priority date (day/month/year) 24.07.2003						
G02	national Patent Classification (IPC) or 2C7/02, G02C7/04, A61F9/00 Icant									
TECHNOVISION GMBH GESELLSCHAFT FÜR DIEet al.										
1.	This report is the international p Authority under Article 35 and to	reliminary examination reporansmitted to the applicant a	rt, established by this ccording to Article 36	s International Preliminary Examining J.						
2.										
з.	This report is also accompanied	by ANNEXES, comprising:								
	a. Dent to the applicant and									
	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).									
	sheets which supers beyond the disclosu Supplemental Box.	sede earlier sheets, but which tre in the international applic	ch this Authority cons ation as filed, as indi	iders contain an amendment that goes cated in Item 4 of Box No. I and the						
	sequence listing and/or	I Bureau only) a total of (ind tables related thereto, in cor ce Listing (see Section 802	nputer readable form	er of electronic carrier(s)) , containing a only, as indicated in the Supplemental instructions).						
4.	This report contains indications	s relating to the following item	ns:							
1	☑ Box No. I Basis of the	opinion								
	☐ Box No. II Priority									
1	☐ Box No. III Non-establis	hment of opinion with regard	d to novelty, inventive	step and industrial applicability						
	Box No. IV Lack of unity									
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement									
	Box No. VI Certain docu									
☐ Box No. VII Certain defects in the international application ☐ Box No. VIII Certain observations on the international application										
	LI BOX NO. VIII CERAIN ODS	ervations on the international	гарріісацоп							
Da	te of submission of the demand		Date of completion of t	his report						
02	.02.2005		04.07.2005							
Na pre	me and mailing address of the internal eliminary examining authority: European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 5 Fax: +49 89 2399 - 4465	·	Authorized Officer Telephone No. +49 89	2399-						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/008201

_	Box No. I Basis o	the report						
1. With regard to the language , this report is based on the international application in the language in which if filed, unless otherwise indicated under this item.								
	sed on translations from the original language into the following language, guage of a translation furnished for the purposes of: search (under Rules 12.3 and 23.1(b)) if the international application (under Rule 12.4) preliminary examination (under Rules 55.2 and/or 55.3)							
2.	With regard to the elements* of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):							
	Description, Pages							
	1-29	as originally filed						
	Claims, Numbers	Claims, Numbers						
	1-64	as originally filed						
	Drawings, Sheets	Drawings, Sheets						
	1/30-30/30	as originally filed						
	□ a sequence listi	ng and/or any related table(s) - see Supplemental Box Relating to Sequence Lis	ting					
3.	The amendments have resulted in the cancellation of: ☐ the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/figs ☐ the sequence listing (specify): ☐ any table(s) related to sequence listing (specify):							
4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify):							
	* If item 4 an	plies, some or all of these sheets may be marked "superged	ođ 11					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/008201

_	Box No. IV Lack of unity of invention								
1.		In response to the invitation to restrict or pay additional fees, the applicant has: restricted the claims. paid additional fees. paid additional fees under protest. neither restricted nor paid additional fees.							
2.		This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.							
3.	This	This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is							
		complie	d with.						
	×	not complied with for the following reasons:							
		see separate sheet							
4.	Cor	Consequently, this report has been established in respect of the following parts of the international application:							
	×								
		the parts	relating to claims No	s					
_									
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
1. Statement									
	Novelty (N)		Yes: No:	Claims Claims	2,3,6,7,9,14-20, 30,32,33,39-41,43,44,55-64 1,4,5,8,10-13,21-29,31,34-38,42,45-54				
Inventive step (IS)		p (IS)	Yes: No:	Claims Claims	2,3,6,7,9,14-20, 30,32,33,39-41,43,44,55-64 1,4,5,8,10-13,21-29,31,34-38,42,45-54				
	Indu	ıstrial apı	olicability (IA)	Yes: No:	Claims Claims	1-64			
2.	Cita	tions and	l explanations (Rule 7	0.7):					

see separate sheet

Re Item IV.

The separate groups of inventions are:

- 1. Claims 1-20
 - A marked contact lens, which is not vision impairing.
- 2. Claims 21-54
 - A method for evaluating the position of a marked contact lens in the patients eye.
- 3. Claims 55-64
 - Method for determining pupil parameters.

They are not so linked as to form a single general inventive concept (Rule 13.1 PCT) for the following reasons:

The common special technical feature in groups 1 and 2 is a marked contact lens. Such a contact lens is disclosed for example in document EP 0 949 528 (see column 8, paragraph 32).

The problems solved by both groups are also different, namely, providing a marked contact lens, which does not impaire the vision of the user and providing a method to evaluate the movement of the lens in the eye.

The common special technical feature in groups 1 and 3 does not exist. The problems solved are obviously different as well.

The common special technical feature in groups 2 and 3 is the step of determining the center of the pupil of the patient. Such a step is disclosed for example in document EP 0 949 528 (see column 9, lines 20-26).

The problems solved by both groups are also different, namely, providing a method to evaluate the movement of the lens in the eye and providing a method to determine pupil parameters of an eye.

Therefore, the three groups of inventions cannot be considered to have a common single general inventive concept. As a consequence, claim groups 1, 2 and 3 are non unitary according to Rule 13.1 and 13.2 PCT.

Re Item V.

1. The following documents are referred to in this communication:

D1: EP 0 949 528 A (MENICON CO LTD) 13 October 1999 (1999-10-13)

D2: DE 102 41 210 A (TECHNOVISION GMBH GES FUER DIE) 25 March 2004 (2004-03-25)

- 2. INDEPENDENT CLAIM 1 (1st group of inventions)
- 2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

 Document D1 discloses (the references in parenthesis applying to this document):

A contact lens (abstract), comprising: a surface including a plurality of marks in an optical zone region of the lens (column 8, lines 17-21), wherein the marks are light absorbing or light scattering with respect to light propagating in a posterior to anterior lens surface direction (it is understood that the index provided on the lens will absorb light in both directions if its a dyed mark or scatter it if has been done with a laser or a cutter, c.f. column 9, lines 24-27), wherein the marks are non-vision impairing with the lens in-vivo (column 9, lines 29-31).

3. DEPENDENT CLAIMS 4, 5, 8, 10-13

Dependent claims 4, 5, 8, 10-13 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty or inventive step (Article 33(2) and (3) PCT).

4. DEPENDENT CLAIMS 2, 3, 6, 7, 9, 14-20

The combination of the features of dependent claims 2, 3, 6, 7, 9, 14-20 are neither known from, nor rendered obvious by, the available prior art.

- 5. INDEPENDENT CLAIMS 21, 29 and 45 (2nd group of inventions)
 - 5.1 Although the present application claims priority of the german DE 10333794, this priority claim does not seem to hold for the following reason.

The applicant is reminded that only the date of filling of the "first application"

can be claimed as a priority (Article 8 PCT). It seems however that in the present case, the subject-matter of independent claim 21 of the present invention is already contained in earlier german application DE 102 41 210 filed on September, 5th 2002, later published as DE 102 41 210 (D2) and disclosing (the references in parentheses applying to this document):

A method for making a contact lens measurement in vivo (paragraph 11), comprising:

- providing a selectively marked contact lens in vivo (paragraphs 16, 21);
- obtaining an image of said lens in vivo (paragraph 27)
- determining a pupil coordinate parameter (paragraphs 19, 33)
- calculating a position and/or orientation coordinate parameter of the contact lens for each image with respect to the pupil coordinate parameter (paragraph 18); and
- repeating steps (a-d) at a repetition rate greater than about 10 Hz over a selected time interval (paragraphs 35, 27, 82).

Accordingly the claim to priority is not valid in respect of the subject-matter already contained in the earlier DE application 102 41 210. As a consequence of the non valid priority, document D2 published on March 25th, 2004 (before the filing of the present application) forms part of the state of the art in the sense of Rule 33(1) PCT. Hence the subject-matter of claim 21 is not new in the sense of Article 33(2) PCT.

- 5.2 The same reasoning applies mutatis-mutandis to claims 29 and 45. Hence the subject-matter of these claims is not new in the sense of Article 33(2) PCT.
- 6. DEPENDENT CLAIMS 22-28, 31, 34-38, 42, 46-54

Dependent claims 22-28, 31, 34-38, 42, 46-54 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty or inventive step (Article 33(2) and (3) PCT).

7. DEPENDENT CLAIMS 30, 32, 33, 39-41, 43, 44

The combination of the features of dependent claims 30, 32, 33, 39-41, 43, 44 are neither known from, nor rendered obvious by, the available prior art.

8. INDEPENDENT CLAIM 55 and DEPENDENT CLAIMS 56-64

The combination of the features of claims 55-64 are neither known from, nor rendered obvious by, the available prior art.